

Thank You & Congratulations On Your Purchase of: Model # 10.015



"The Professionals Choice"

QUICK START GUIDE:

For thorough instructions, please review attached instructions. However, below, you will find a simplified start-up procedure.

- 1.) Place unit on a sturdy and level surface.
- 2.) Plug unit's cord set according to voltage required.
- Unit is NOT shipped with oil. Prior to operating unit, please fill unit with oil using the vacuum oil provided. NEVER OPERATE UNIT WITHOUT OIL. Oil fill inlet is located directly behind the unit. Remove black rubber cap and fill oil slowly making certain that the oil level is at the maximum. Oil level can be viewed on sight glass on the right side of the unit.

OIL CHANGE PROCEDURE

In order to sustain maximum life of vacuum pump, it is recommended that the oil be changed every 10 hours of use using standard vacuum oil. In order to change oil, turn unit's power off and unplug unit from power supply. Remove black rubber oil fill cap and loosen oil drain plug located on the bottom right-hand side of the unit (please note that oil will not drain unless the oil fill inlet cover is removed). Once oil has been completely drained, reinstall the oil drain plug securely into place. Refill unit with oil following step #3 above.

ETUP AND OPERATION

- Remove the corrugated shipping cover, then place unit on even surface. To operate the unit, it is necessary to ll the vacuum pump with oil.
- FILLING THE VACUUM PUMP WITH OIL

lach bottle of Vacuum Pump Oil comes factory-sealed for protection against contamination. Unscrew the cap nd remove air-tight seal. Replace cap with filter cap included, cut off spout tip, and prepare to fill oil. Remove rass oil fill cap located on back of unit. Insert spout tip into the oil fill port of the pump. Fill slowly until OIL EVEL reaches upper fill line on sight glass. IMPORTANT: DO NOT USE ANY OIL OTHER THAN ACUUM PUMP OIL. Replace oil fill plug before operating machine.

- OPERATING THE VACUUM PUMP

When the pump is ready for use, uncoil the electrical cord and plug into suitable outlet (120 volts or 240 volts). lace the vacuum control knob in the "VACUUM RELEASE" position. Push the toggle switch to the "ON" osition and observe the oil in the sight glass to be sure it remains even with the top of the Oil Level line. It may be necessary to repeat this procedure two or three times until all the required oil has settled into the pump ystem. Maximum oil capacity is 26.4 ounces.

IMPORTANT

IF UNIT FAILS TO PULL A VACUUM OR PULLS THE VACUUM SLOWLY, CHECK THE DIL LEVEL ON THE PUMP- OIL MUST BE EVEN

WITH TOP OF LINE WHEN RUNNING.

I- TESTING THE VACUUM INVESTING TABLE

Place the rubber pad on the vacuum table so that the hole in the pad aligns with the vacuum table intake. Place he Bell Jar on the rubber pad, making sure that the vacuum table intake is inside the Bell Jar. Push the toggle witch to "ON", which activates the vacuum pump. Turn the Vacuum Control Knob to the Investment Table position to check Vacuum Pump Gauge. The vacuum gauge needle should begin to rise immediately and, in less han one minute, should reach 29 inches plus at sea level. If this does not happen, using both hands press irmly on the sides of the bell jar to assure a good seal between the bell jar and the rubber pad. Moistening the rubber pad may help in attaining a good seal.

CAUTION: Never push down on the top of the bell jar. Excess pressure to this point may cause plastic to break. After desired vacuum is achieved, release vacuum by turning Vacuum Control Knob to "Release" position.

5- TESTING THE VACUUM CASTING CHAMBER

Make sure the silicon rubber gasket is properly aligned on the vacuum chamber. Add the Vacuum Assist Flask Adapter and, with the vacuum pump running, place the Silicon Rubber Seal off-centered over the hole in the senter of the plate so that it will form a seal. Turn the Vacuum Control Knob to the "Casting Table" setting, and observe the vacuum gauge needle to make certain 29 inches of vacuum (at sea level) is attained. This indicates hat the hoses are connected tightly and that the silicon rubber pad is seated properly. If a full vacuum is not uttained, check all seals for air leakage, then repeat test. If all checks are good, machine is ready for use.

CAUTION

ALWAYS RETURN THE VACUUM CONTROL KNOB TO THE "VACUUM RELEASE" POSITION BEFORE TURNING OFF THE ELECTRIC MOTOR; OTHERWISE, OIL WILL BACK UP THROUGH SYSTEM

INVESTING PROCEDURE

- 1- Following manufacturer's recommendations, measure the correct amount of water and pour into mixing bowl. Weigh correct amount of investment material and introduce investment into the water. Stir the water and investment for 2 to 3 minutes, making certain that the investment slurry is very smooth in texture and free of lumps.
- 2- Place the mixing bowl containing this slurry on the vacuum table and cover with plastic bell jar. Flip Toggle Switch to "ON" position. Turn Vacuum Control Knob so that it points to the "Investment Table" position. The reduced air pressure under the bell jar causes the entrapped air in the investment to be released and rise to the surface. As this happens, the investment slurry will also rise. If it appears that this is happening, tap the corner of the vacuum table sharply several times, and slurry level should drop. At the end of approximately 90 seconds, release the vacuum by turning the Vacuum Control Knob to the "Vacuum Release" setting, then turn pump off. IMPORTANT: Never turn pump off before releasing vacuum, or oil will be sucked from the pump up to the table. Also, never
- allow the red silicon pad to cover the hole on the casting table while the investment table is in use.
- 3- Pour investment mix into the flask. When using conventional, solid wall flask and vacuum assist, it is recommended that a flask extender made of preformed rubber be placed around the top of the flask to prevent overflow of investment during vacuuming. This allows pouring investment to the top of flask. When using perforated flask, it is necessary to cover flask perforations (or holes). It is recommended that you use flask jackets or preformed rubber for this purpose. Place filled flask under bell jar, and activate the pump. Turn the Vacuum Control Knob to the "Investing Table" setting and secure the seal between the bell jar and rubber pad. Now, vacuum the invested flask for approximately 1 1/2 minutes at full vacuum (29 inches at sea level). Care should be taken not to over vacuum investment, since this can remove too much water from the slurry. Lightly tapping the spring supported vacuum table with the hand will help to release bubbles from the flask during the vacuuming process.
- **4-** Allow the invested flask to set for approximately two hours before beginning burnout procedure.

JMP TROUBLE- SHOOTING

With reasonable care, your Vacuum Pump will provide years of good service. Usually, failure to perform tisfactory can be corrected easily by a few simple checks.

PUMP WON'T START

e sure the plug is in securely, the unit switch is ON and the receptacle is live. Make sure the motor safety vitch located on the bottom left hand side of the motor is in the "ON" position. (facing up) Pump and oil must above 30 F. Line voltage must be equal to the motor name plate +/- 10%.

he pump motor has automatic resetting thermal overload protection. If the motor will not restart the pump after unning, it may have opened the thermal protection. Disconnect the pump from the system, wait about 15 inutes for the motor to cool and turn it on again.

· PUMP OR MOTOR RUNS HOT

ormal operating temperature is approximately 160 F, which is hot to the touch. Line voltage and ambient onditions will affect this somewhat.

- If you have checked these points and your pump still does not operate properly, follow the following structions:

- RETURNING A UNIT

- it is necessary to return an inoperative unit:
- a) drain oil
- b) pack carefully, since claims for damage during transportation are virtually impossible to prove on "used machinery".
- c) return entire unit to your dealer.
- d) on your return order, simply stating the unit is "defective" is not enough. YOU MUST BE AS SPECIFIC AS POSSIBLE:
 - (1) Pump stuck, will not turn over
 - (2) motor will not start
 - (3) leaks oil
 - (4) accidentally dropped
 - (5) any other possible reasons for inoperative condition.

PUMP WARRANTY

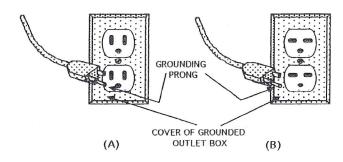
Dur Vacuum Pumps are warranted against defects in materials and workmanship for 1 year. These products are quaranteed when used in accordance with our directions and recommendations, and we limit this warranty to the epair, replacement, or credit at invoice (our option) of products which in our opinion are defective due to lefects in workmanship and/or materials. In no case will we allow charges for labor, expense, or consequential lamage. Repairs performed on items out of warranty will be invoiced on a normal basis.

SAFETY INSTRUCTIONS

I. GROUNDING INSTRUCTIONS

This tool should be grounded while in use to protect the operator from electric shock. The tool is equipped with an approved three-conductor cord and three-prong grounding type plug to fit the proper grounding type receptacle. The green (or green and yellow) conductor in the cord is the grounding wire. Never connect the green (or green and yellow) wire to a live terminal. If your unit is for use on less than 150 volts, it has a plug that looks like that shown in sketch (A) in Figure 1. If it is for use on 150 to 250 volts, it has a plug that looks like that shown in sketch (B). Use of an extension cords or a 2 prong adapter is not recommended.

FIGURE 1 GROUNDING METHODS



II. TOOL SAFETY INSTRUCTIONS

1. Keep Work Area Clean

Cluttered areas and benches invite accidents.

2. Avoid Dangerous Equipment

Don't expose power tools to rain. Don't use power tools in damp or wet locations. Keep work area well lit.

3. Keep Children Away

All visitors should be kept safe distance from work area and appliance.

4. Store Idle Tools

When not in use, tools should be stored in dry, high, and locked location out of the reach of children.

5. Don't Force Tool

It will do the job better and be safe at the rate for which it was designed.

6. Use Right Tool

Don't force small tool or attachment to do the job of a heavy-duty tool.

7. Wear Proper Apparel

Do not wear loose clothing or jewelry which may get caught in moving parts. Tie back long hair or use a proper hair net.

8. Use Safety Glasses

Use safety glasses with all rotating tools. Also use a face or dust mask if cutting operation is dusty.

9. Don't Abuse Cord

Never carry tool by cord or yank it to disconnect from receptacle. Keep cord from heat, oil, and sharp edges.

10. Secure Work

Use clamps or a vise to hold work. It's safer than using your hand and it frees both hands to operate tool.

11. Don't Overreach

Keep proper footing and balance at all times.

12. Maintain Tools with Care

Keep tools sharp and clean for best and safest performance. Follow instructions for lubricating and changing accessories.

13. Disconnect Tools

When not in use; before servicing; when changing accessories such as blades, bits, cutters, etc.

14. Avoid Accidental Starting

Be sure switch is OFF when plugging in.

ARBE

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WARRANTY POLICY

Arbe Machine Mfg., Inc. warrants all products furnished by it are free from defects in material and workmanship at the time of shipment for a period of eighteen (18) months from the date of shipment, or one (1) year from the date of installation, whichever occurs first. Claims must be made during that period and are limited to the replacement of parts claimed to be defective.

This warranty shall not extend to products that have been misused, neglected, altered or repaired without factory authorization during the warranty period. Operating conditions beyond our control such as improper voltage, excessive ambient temperatures, or other conditions that would affect the performance or life of the product will also cause the warranty to become void.

Permission to return parts for warranty repair must be obtained, and all returns must be prepaid factory. If, after examination, the product or part is found to be defective, it will be repaired or replaced on a no-charge basis and returned. On the other hand, if it is determined that the warranty has not been breached by Arbe Machine Mfg., Inc., then the usual charges for repair or replacement will be made. Parts or products that are obsolete or those made to special order are not returnable.

This limited warranty applies only to the above and is for the period set forth. Arbe Machine Mfg., Inc.'s maximum liability shall not, in any case, exceed the contract price for the product, part, or component claimed to be defective; and Arbe Machine Mfg., Inc. assumes no liability at all for any special, indirect, or consequential damages arising from defective equipment.

THERE ARE NO WARRANTIES IMPLIED OR EXPRESSED THAT EXTEND BEYOND THOSE CONTAINED IN THIS LIMITED WARRANTY.